



IHOPs TRAINING COURSE

COURSE NUMBER:

PRESENTED BY: MSFC/Industrial Safety Department

COURSE NUMBER:

DATE: 07-14-04

IHOPs TRAINING COURSE

07-14-04

Introduction

This course is designed to provide owners of hazardous operations, Supervisors and their assigned Point-of-Contacts (POC) an introduction to the Inventory of Hazardous Operations (IHOPs) web-based application. Steps are provided to begin the process of cataloging the MSFC on-site hazardous operations.

To enhance the learning experience, the user should print this presentation and use it while working on the application.

The IHOPs application has additional features that are not addressed in this presentation, but can be easily learned by trying them.

IHOPs TRAINING COURSE

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TARGET AUDIENCE

Only personnel who have hazardous or potentially hazardous operations, test activities, or special hazard equipment are required to use IHOPs. This includes:

- **The Supervisor** who is responsible for personnel working in these areas initiates the IHOPs process.
- **A Point-of-Contact (POC)** assigned by the supervisor to complete the IHOPs assessment. A POC can only edit, delete and view IHOPs that was assigned by the supervisor.
- **The S&MA Reviewer** who reviews the data submitted to IHOPs.

COURSE OBJECTIVE

Train the Target Audience to use the IHOPs tool.

IHOPs TRAINING COURSE

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What is IHOPs ? The Inventory of Hazardous Operations (IHOPs) is a web-based database that reflects all hazardous operations on-site, excluding construction work.



You may remember, in the past the Safety Office gathered this information by requesting each MSFC organization to submit an annual status report stating what hazardous operations they were conducting and where these operations were located.

If you have hazardous or potentially hazardous operations go to the next slide for instructions.

Part I: Supervisor IHOPs Startup

Step 1 Prepare a list of your hazardous operations.



NASA hazardous operations involve material or equipment that has a high potential to result in loss of life, serious injury to personnel, or damage to systems, equipment, or facilities. For Example:

Asbestos Handling

Autoclave/Hydroclave Battery Charging

Biological Hazards

Centrifuge

Confined Spaces

High Noise (Above 80 dB)

Welding (Hot Work)

Laboratory

Extreme Temperature

Lawn care

Maintenance (Mechanical & Electrical)

Dipping and Coating

Pressure System

Hazardous Chemicals & Materials

Explosives **NOTE: A pull down list of Hazardous Operations is provided in IHOPs**

Part I: Supervisor IHOPs Startup

Step 2 Go to SSWP and select IHOPs.

NOTE: You will have direct access to IHOPs. If you are not provided the IHOPs Menu, contact the [Safety IT Admin](#) mailbox by using the Author link in the footer.

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Step 3 From the Supervisor Menu, select the "Add Hazardous Operation"

Input/Edit Hazardous Operation Menu

[Click here for instructions for FY03 IHOPS Inventory.](#)

The associated checklists are optional and are not required to be completed. The checklists are provided as a tool to assist you in your assessment of the operation.



[Add Hazardous Operation](#)

[Edit Hazardous Operation](#)

[Reassign Hazardous Operation](#)

[View/Search Hazardous Operation Inventory](#)

[2004 SHE HazOps Survey](#)


[Training Course](#)
Updated: 03-08-04


[MSFC Job Hazard Analysis](#)


[Hazardous Operations](#)
[Categories](#) [Help](#)

Step 4 Select the Hazardous Operation FRI Level and Submit

* Facility Risk Indicator Level:

☐ ☐ ☐ ☐
1 2 3 4



[FRI definitions](#)

Submit

Clear Form

NOTE: An FRI (Facility Risk Indicator) is the indicator used to help determine the level of system safety effort required to meet NASA safety requirements. A definition button is provided or want to look at **MWI 8715.15, "MSFC Safety Assessment Program."**

Part I: Supervisor IHOPs Startup

You have the option to assign a Point-of-Contact (POC) for each hazardous operation that you are responsible for Or complete the assessment yourself.

For each hazardous operation you are responsible for:

Step 5 Select a ****Building:** or Centerwide

Step 6 (Optional) Select a ***Room/Area:**

Step 7 Verify ****MSFC Org Supported:** is correct.

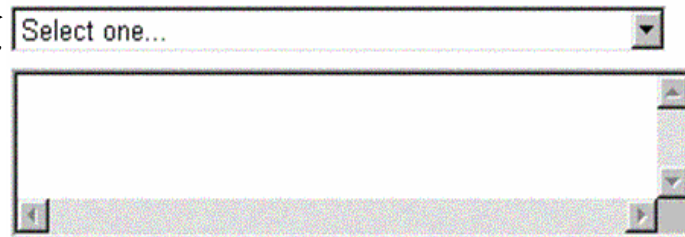
Step 8 Verify **** Submitting Org:** is correct.

NOTE: The Org Supported is the NASA directorate that you support. It is selected automatically for you, based on the SSWP matrix for safety meetings. To change, just select a different directorate mail code (e.g., QS01).

Part I: Supervisor IHOPs Startup

Step 9 Select one of the pull down Hazardous Operations

*Select the ******Hazardous Operation Category that best describes the operation and review the associated checklists for the Haz Ops Category. If the operation does not fall into a predetermined category select "Other Hazardous Operation" and provide an operation name.*



[Hazardous
Operation
Category Help](#)

If your hazardous operation is not listed, select “Other Hazardous Operation” and add a Description. Note: To help determine the hazardous operation category, a [help document](#) has been provided. Viewing the associated checklists can assist in determining the appropriate hazardous operation category for selection.

Step 10 (Optional) If you want to assign this hazardous operation to someone else [a Point-of-Contact (POC)]

To assign the Hazardous Operation to a Point of Contact (POC), enter the badge number of the POC:

enter the POC's MSFC badge number.



NOTE: Seven digits are required, so start with a “0” if necessary.

Part I: Supervisor IHOPs Startup

Step 11 To complete assigning the hazardous operation to the POC, scroll to the bottom of the page and select



Submit for SGMA Review?

Step 12 Verify this is the correct POC

Then select

NOTE: IHOPs sends the POC an e-mail telling them they have been assigned to review and complete this Hazardous Operation.

Are You Sure You Want To Reassign the Hazardous Operation To:

Name: *FirstName LastName*

Telephone: *256-555-5555*

Email Address: *Email.Name@domain.com*

Badge Number: *0999999*

Org Code: *Org*

MSFC Org Supported: *Org01*

Step 13 At the Checklist Menu, you can complete the checklist. If you have Additional Hazardous Operations to Enter, select and click on the and return to **Step 3**.

Part I: Supervisor IHOPs Startup

Step 14 If you have Completed Assigning all your hazardous operations and are Ready to Exit IHOPs, Close IHOPs by clicking the “Log Out” button.

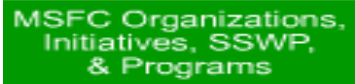
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Log Out

Login Menu

Part II: POC IHOPs Data Entry

NOTE: The following Steps are completed by the assigned POC or the Supervisor who did not assign a POC. The assigned POC is just beginning the IHOPs process, **Step 15** is their **first step after logging into** IHOPs (POC should go to the SHE Page and select the to  find the IHOPs link).

Click on the  to go to the login prompt.

WARNING: Successive failure to enter correct login information may require reset of your MSFC IDS PASSWORD.

Login Help

IDS Users: Enter your **IDS** User Name and Password and then click continue.

User Name:

Password:

Type in your User Name and Password. Click Continue. Click on the "IHOPs" button.

Note: If you do not see an "IHOPs" button or you do not have a User Name and Password you will need to **request access** to IHOPs by clicking the "**Request Access**" link at the bottom of the screen

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and completed the request access form.

If you need help, contact the Safety.IT.Admin@msfc.nasa.

Part II: POC IHOPs Data Entry

Step 15 From the Poc Menu, select the "Edit Hazardous Operation"

Input/Edit Hazardous Operation Menu

[Click here for instructions for FY03 IHOPS Inventory.](#)

The associated checklists are optional and are not required to be completed. The checklists are provided as a tool to assist you in your assessment of the operation.



[Edit Hazardous Operation](#)

[View/Search Hazardous Operation Inventory](#)



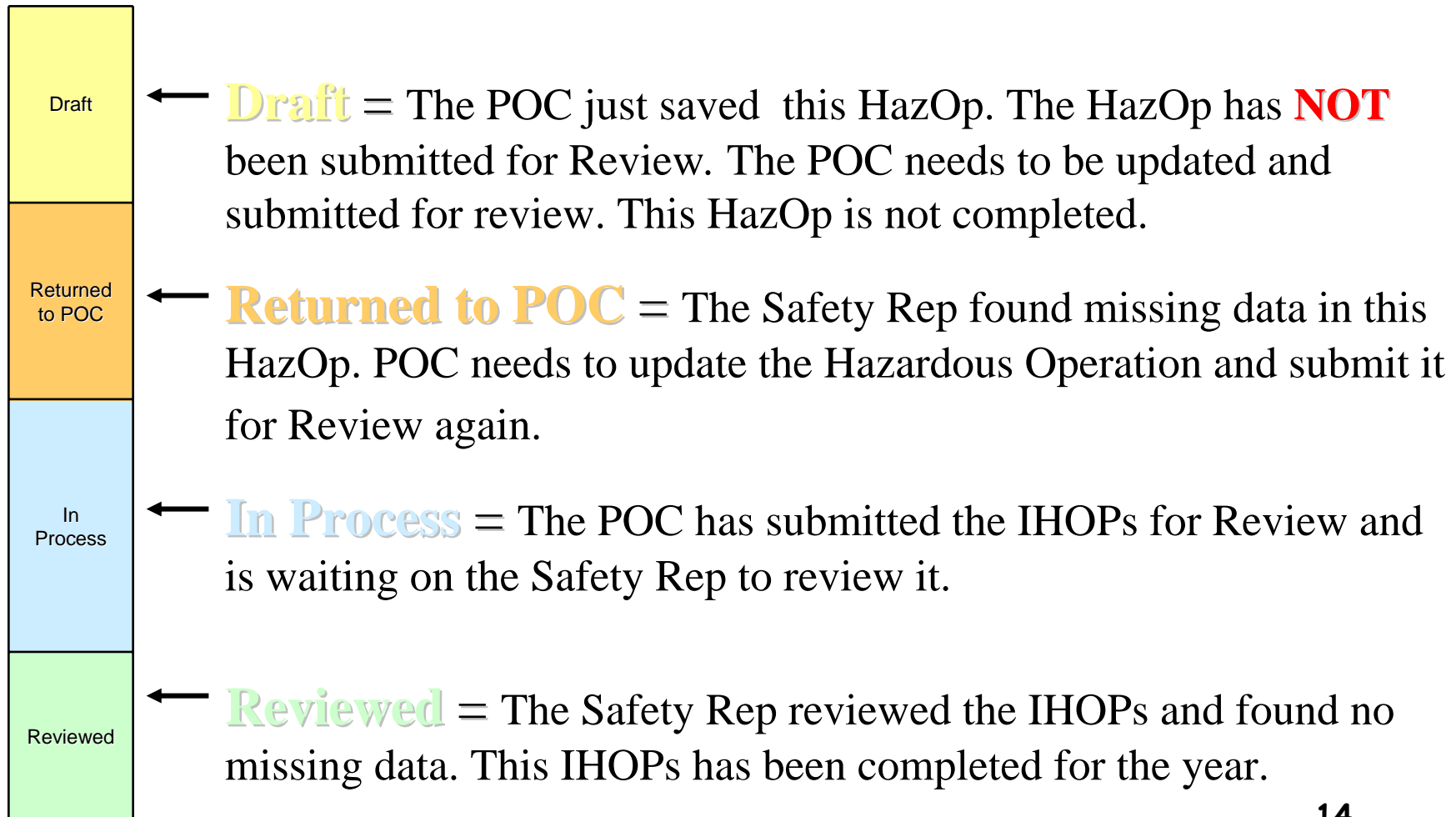
Step 16 From the Edit Active Hazardous Operation

*Click the ID button to edit	Building/Area & Room	Hazardous Operation	Risk Level	Supported Org	Inventory Date	Date Of Next Inventory	Date of Last S&MA Review	S&MA	Reviewed By	Status	**Click the DEL button to delete
755	Test Area All	High Pressure Operations (>= 150 psig)	2	QS01	Draft	Draft		Alvin Eidson		Draft	DEL
624	Centerwide Area 54	Hazardous Batteries And Cells	3	QS01	10/6/2003	10/6/2004	10/27/2003	Sonya Hutchinson	Sonya Hutchinson	Returned to POC	DEL
1040	4663 B Wing	Other Hazardous Operation - Heavy Lift	3	QS01	5/10/2003	5/10/2004		Jimmy Hill		In Process	DEL
1056	4678 A102	Auto & Vehicle Repair	1	QS01	5/22/2003	5/21/2004	5/27/2003	Kristie French	Kristie French	Reviewed	DEL

Click the Hazardous Operation **ID** button to edit and/or submit an IHOPS for Review.
Click the "**DEL**" button to delete the Hazardous Operation.

Part II: POC IHOPs Data Entry

Step 17: Definitions of the Status Of a Hazardous Operation



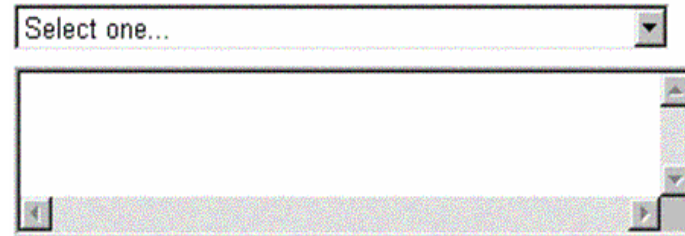
Part II: POC IHOPs Data Entry

On the Update Hazardous Operation page fill out the form as completely as possible.

NOTE: (**) are Required Fields to save the file and (*) are Required Fields for submitting for S&MA Review.

Step 18 Verify that the "Hazardous Operation Category is correct. →

*Select the **Hazardous Operation Category that best describes the operation and review the associated checklists for the Haz Ops Category. If the operation does not fall into a predetermined category select "Other Hazardous Operation" and provide an operation name.*

A screenshot of a web form. At the top is a dropdown menu with the text 'Select one...' and a downward arrow. Below the dropdown is a large, empty text area with a scroll bar on the right side.

[Hazardous
Operation
Category Help](#)

If your hazardous operation is not listed, select "Other Hazardous Operation" and add a Description. If "Other Hazardous Operation" is selected, you will be given the option to complete any checklist that applies. Note: To help determine the hazardous operation category, a [help document](#) has been provided. Viewing the associated checklists can assist in determining the appropriate hazardous operation category for selection.

Part II: POC IHOPs Data Entry

Step 19 (Optional) If you need Help

☐ Check Here, if requesting help from the Safety Office.

Describe the help needed:

Step 20 (Optional) You can add multiple Job Hazard Analysis (**JHA**) or Operating Procedures (**OP**) by checking the check box.



☐ Check Here, if adding multiple Job Hazard Analysis.

Step 20A (Optional) You can delete all or some of the multiple Job Hazard Analysis (**JHA**) or Operating Procedures (**OP**) by checking the delete box near each of the JHA or OP you want to delete.



☐ Check to delete this JHA. [\[MSFC Job Hazard Analysis\]](#)

Part II: POC IHOPs Data Entry

Note: For existing Hazardous Operations (prior to 2002) that do not have documentation of an ORI, SRT, TRR/ORR, HA, or PPE provide reasonable rationale in the "Additional Information/Rationale" section below.

Safety Review Team(SRT)

SRT Date: - -

SRT Title:

SRT Records POC:

Test/Operational Readiness Review(TRR/ORR)

TRR/ORR Date: - -

TRR/ORR Records POC:

Job Hazard Analysis(JHA)

1. JHA Date: - -

JHA Title:

JHA Records POC:

☐ Check Here, if adding multiple Job Hazard Analysis.
[\[MSFC Job Hazard Analysis\]](#)

Operating Procedure(OP)

1. OP Date: - -

OP Title:

OP Records POC:

☐ Check Here, if adding more Operating Procedures.

*Personal Protective Equipment(PPE) Assessment

PPE Assessment Date: - -

PPE Assessment Title:

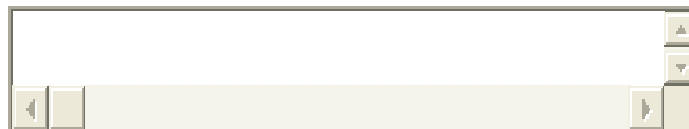
PPE Assessment Records POC:

The documentation of the applicable safety assessment (ORI, SRT, TRR/ORR, HA and PPE) for the FRI level is required for an existing Hazardous operations that started 2002 or later.

If the existing Hazardous Operation has a FRI level of 1 or 2, has been in operation prior to 2002, and the POC does not have documentation of a safety assessment being performed, then reasonable rational is required in the "Additional Information/Rational" section.

Completion of applicable checklists is one method of providing reasonable rations.

Additional
Information/Rationale:



Part II: POC IHOPs Data Entry

Note: Near the bottom of the form, if the hazardous Operation was submitted for S&MA Review, the last date of submittal and the next review date will be displayed.

—————→ Last Updated: **10/ 20 /2003**
Next Review Required By: **10 / 20 /2004**

If a Hazardous Operation was “**Returned to POC**” by the S&MA Safety Rep, an email is sent to the POC. The email contains comments describing the reason the Hazardous Operation is being returned. In addition to the email, the Safety Rep comments are displayed on the Edit and Reassign pages so the POC and Supervisor can view the comments.

—————→ **S&MA Review Information:** MISSING DATA – Please complete the Job Hazard Analysis(JHA) Date, Title and Record the POC.

Part II: POC IHOPs Data Entry

Step 21 After completing the update page you may:

Submit for S&MA Review?

Step 21A Where submits the data for S&MA Review,

Step 21B or saves data and allows you to return later and complete the required fields.

Step 21C The creates a duplicated or copy of the current hazardous operation. This function will help create another record that requires few changes. By clicking this button a duplicated record will be created from the current HazOp. You will be sent to the update screen of the newly created duplicated hazardous operation. Click "Yes" or "Just Save" to save your new HazOp.

Step 21D If you choose you are taken to the checklist screen where you can view the completed checklists for the Hazardous Operation.

Part II: POC IHOPs Data Entry

Step 21 (Continued)

Step 21E

Go to Update List / Do not Update Record

does **NOT** Save your inputs and takes you to the “Edit Active Hazardous Operations” page.

Step 21F

Return to Hazardous Operation Menu/Do not Update Record

does **NOT** Save your inputs and takes you to the “Input/Edit Hazardous Operation Menu” page.

Step 22 If you choose either **YES** **NO/Just Save** you are taken to the

CHECKLIST MENU

Complete/Revise checklists for the HazOp ID# [1366](#)

[Spray Finishing Operations](#)

by selecting from the list below and clicking the 'Complete A Checklist' button.

**** Indicates completed Checklists. ****

Operations requiring Respiratory Protection (ver. JAN 2004)
Personnel Protective Equipment (PPE) Assessment (ver. JAN 2004)
Spray Finishing Operations (ver. JAN 2004)

Complete A Checklist

The associated checklists are optional and are not required to be completed. The checklists are provided as a tool to assist you in your assesment of the operation.

Finished With Checklists

Part II: POC IHOPs Data Entry

Step 23 To complete a checklist, select the

applicable Checklist(s) by:

a. Clicking on checklist title

b. Then clicking on “Complete a Checklist”

c. The PPE Checklist must be completed for all hazardous operations.

d. When you have completed all applicable checklists that applies to your requirements, click on the “Finished With Checklists” to go to the not completed screen.

CHECKLIST MENU
Complete/Revise checklists for the HazOp ID# 1366
[Spray Finishing Operations](#)
by selecting from the list below and clicking the 'Complete A Checklist' button.

**** Indicates completed Checklists. ****

Operations requiring Respiratory Protection (ver. JAN 2004)
Personnel Protective Equipment (PPE) Assessment (ver. JAN 2004)
Spray Finishing Operations (ver. JAN 2004)

Complete A Checklist

The associated checklists are optional and are not required to be completed. The checklists are provided as a tool to assist you in your assessment of the operation.

Finished With Checklists

Personnel Protective Equipment (PPE) Assessment

This Checklist covers some of the regulations issued by the U.S. Department of Labor- OSHA under 29CFR 1910. [Subpart L- Personal Protective Equipment \(PPE\)](#) and [MWI 6715.4 Personal Protective Equipment](#).
It applies to all operations involving PPE in any work environment.

Num	General - Personnel Protective Checklist	N/A this section	Yes	No	N/A	Help
1	Has a PPE assessment been performed to determine the need for and requirements for all the different types of PPE? (Section 5.6) NOTE Log the title and date of this hazard assessment on the IHOP's Page for each hazardous operation that requires PPE.	N/A this section	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	Has the proper PPE been provided?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3	Have signs been posted in the area(s) where PPE is required to be worn?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4	Are spot checks conducted to ensure that the employees and visitors are wearing the PPE?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5	Is PPE maintained in a serviceable manner? (29CFR 1910.132)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6	Has employee-owned equipment been checked to ensure its adequacy, including proper maintenance and sanitation? (29CFR 1910.132)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Num	Training - Personnel Protective Checklist	N/A this section	Yes	No	N/A	Help
7	Has proper training been provided to the affected employees on the proper use of PPE according to established guidelines? (29CFR 1910.132 (d) and MWI 6715.1 Section 10.1)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
8	Have PPE training records been sent to the Employee & Organizational Development Department? (MWI 6715.1 Section 9.1)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Please select submit to save your answer.
Submit Reset Delete
(To return without submitting, use the back button)

N/A this section

Step 24 Complete all Applicable Checklists.

NOTE:

If you need to complete the checklist. Use “NO” if the requirement is not met or if you don’t know the answer. You have the option to change the answer when you have additional information or have corrected the problem. Make sure interim measures are in place for mitigation of problems.

If a section in the checklist does not apply to your hazardous operation, click the “N/A this section” button above the section and N/A will be selected for all the answers in that section.

Part II: POC IHOPs Data Entry

Step 25 The “Not Completed Checklists” screen displays the list of Checklists that were not completed for the current hazardous operation.

NOT COMPLETED CHECKLISTS
(Checklists not completed by _____)

1.	Battery Charging Operations (ver. JAN 2004)
2.	Compressed Air System Operations (ver. JAN 2004)
3.	Compressed Gas Cylinders Operations (ver. JAN 2004)
4.	Dipping and Coating Operations (ver. JAN 2004)
5.	Hand/Portable Powered Tool Operations (ver. JAN 2004)
6.	Lifting Operations (ver. JAN 2004)
7.	Machine and Woodworking Operations (ver. JAN 2004)
8.	Personnel Protective Equipment (PPE) Assessment (ver. JAN 2004)
9.	Spray Finishing Operations (ver. JAN 2004)
10.	Storm Water Management Checklist (ver. JAN 2004)
11.	Welding (Hot Work) Operations (ver. JAN 2004)

You have chosen NOT to complete the checklists listed above because you believe they are not applicable to Hazardous Operation ID# 1367 - Vehicle Maintenance & Repair Operations.

Do you agree?

- Click the “**YES**” button to if All checklists are NOT applicable or to continue.
- Click the “**NO**” button to return to the checklist menu to complete any applicable checklist.

Step 26 To exit the application, click on the “Log Out” to log out or click the “Login Menu” to return to the S&MA Integrated Access menu.

NOTE: The Supervisor or POC can **Update** or **Delete** a hazardous operation that is assigned to him/her. The Supervisor should select the “**Reassign Hazardous Operation**” to view or reassign hazardous operation(s) that were assigned to him or her from either submitting org or assigned by him or her to a POC.

Part III: Supervisor IHOPs Reassign

Step 27 From the supervisor **Input/Edit Hazardous Operation Menu**, select the "Reassign Hazardous Operation".

[Add Hazardous Operation](#)

[Edit Hazardous Operation](#)

[Reassign Hazardous Operation](#)

[View/Search Hazardous Operation Inventory](#)

[2004 SHE HazOps Survey](#)

Step 28 On the Reassign a Hazardous Operation screen.

The Reassign Screen list all the hazardous operations that you are listed as supervisor or his/her designee for result. **Note: Only a supervisor or his/her designee can "reassign" a hazardous operation.**

Supervisor Name, Org

Reassign a Hazardous Operation

*Click on the Hazardous Operation ID to reassign the POC.

*Click on the Submitting Org to change the Submitting Org.

*ID	Building Room/Area	Hazardous Operation	Risk Level	Point of Contact	*Submitting Org	Supported Org	Inventory Date	Date Of Next Inventory	Date of Last S&MA Review	S&MA	Reviewed By	Status
887	Bldg. 4705 - C203	Maintenance (Mechanical & Electrical) Operations	4	Point of Contact	Org05	Org01	1/7/2003	1/7/2004		Jimmy Hill		In Process
908	Bldg. Centerwide - area	Elevated Work (Above 6 Feet) Operations	2	Point of Contact	Org05	Org01	Draft	Draft		Sonya Hutchinson		Draft
1127	Test Area Test Stand and Test Cells	Lifting Operations	2	Point of Contact	Org05	Org01	6/16/2003	6/15/2004	7/10/2003	Alvin Eidson	Alvin Eidson	Returned to POC
1131	Bldg. 4676 - Pump Area	Machine and Woodworking Operations	1	Point of Contact	Org05	Org01	6/16/2003	6/15/2004	7/9/2003	Beverly Robinson	Beverly Robinson	Reviewed

Return to Hazardous Operation Menu

Click on the **ID** button to reassign a hazardous operation to another POC.

Part III: Supervisor IHOPs Reassign

Step 29 On the "Reassign the Point Of Contact (POC) for the Hazardous Operation" page, at the bottom of the screen, click "**Yes**" to reassign.

Reassign Record?

Step 30 Type in the badge number of the person you want to reassign the hazardous operation.

To Assign the Hazardous Operation to a Point of Contact (POC)

Enter the badge number of the POC:



Note: The Badge Number must be 7 characters. If the badge number is less than 7 characters, try adding a zero before the number.

REASSIGN?

and Click "**Yes**" to reassign the hazardous operation.

Part III: Supervisor IHOPs Reassign

Step 31 Verify this is the correct POC
Then select **Yes** **No**

NOTE: IHOPs sends the POC an e-mail telling them they have been assigned to review and complete this Hazardous Operation.

Are You Sure You Want To Reassign the Hazardous Operation To:

Name: *FirstName LastName*

Telephone: *256-555-5555*

Email Address: *Email.Name@domain.com*

Org Code: *Org*

MSFC Org Supported: *Org01*

Step 32 To change the submitting org of a hazardous operation, go to the "Reassign a Hazardous Operation"

Supervisor Name, Org

Reassign a Hazardous Operation

*Click on the Hazardous Operation ID to reassign the POC.

*Click on the Submitting Org to change the Submitting Org.

ID	Building Room/Area	Hazardous Operation	Risk Level	Point of Contact	*Submitting Org	Supported Org	Inventory Date	Date Of Next Inventory	Date of Last S&MA Review	S&MA	Reviewed By	Status
887	Blg. 4705 - C203	Maintenance (Mechanical & Electrical) Operations	4	Point of Contact	Org05	Org01	1/7/2003	1/7/2004		Jimmy Hill		In Process
908	Blg. Centerwide - area	Elevated Work (Above 6 Feet) Operations	2	Point of Contact	Org05	Org01	Draft	Draft		Sonya Hutchinson		Draft
1131	Blg. 4676 - Pump Area	Machine and Woodworking Operations	1	Point of Contact	Org05	Org01	6/16/2003	6/15/2004	7/9/2003	Beverly Robinson	Beverly Robinson	Reviewed

Return to Hazardous Operation Menu

Click on the "Submitting Org" to change the submitting organization.

Part III: Supervisor IHOPs Reassign

Step 33 All orgs that you have been assigned in SSWP will be listed in the select box. Select the org to change the hazardous operation to

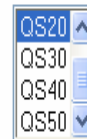
Change the Submitting Org for the Hazardous Operation # 748

*To change the Submitting Org, select the New submitting org and click Yes

Building: Center Wide

Room/Area: Area 1

MSFC Org Supported: QS50 *Submitting Org:



A dropdown menu showing a list of organizational codes: QS20, QS30, QS40, and QS50. QS20 is currently selected and highlighted in blue. Arrows indicate the menu can be expanded or collapsed.



Click **"Yes"** to change the Submitting Org.



Change Submitting Org?

YES

NO

Return to Hazardous Operation Menu

The org will be updated for the hazardous operation. You will be returned to the "Reassign a Hazardous Operation".

Note: Only a supervisor or his/her designee can "change" the submitting org of a hazardous operation.

Part IV: What the S&MA Reviewer Does

S&MA reviews each Hazardous Operation to ensure compliance with OSHA and NASA safety requirements. This includes:

1. Verify correct FRI Level selected.
2. Verify fields are completed as required with appropriate data (e.g., JHA Titles).
3. Review associated Haz Ops Checklists and for each "NO" verify that adequate interim hazard controls in place. **The associated checklists are optional and are not required to be completed. The checklists are provided as a tool to assist the user in his or her assessment of the operation.**
4. Work with the submitter (POC) to correct the non-compliances as needed.

NOTE: If a POC select "Other Hazardous Operation" for the Hazardous Operation Category, the POC must provide a name or describe of the operation. If "Other Hazardous Operation" is select, the POC will have the option of completing any checklist.

For existing Hazardous Operations (prior to 2002) that do not have documentation of an ORI, SRT, TRR/ORR, HA, or PPE, POC is required to provide reasonable rationale in the "Additional Information/Rationale". 27

IHOPs Resources

- For HELP with any IHOPS issues, contact the [Safety IT Admin](#) mailbox by using the Author link in the footer.
- PRINTABLE CHECKLISTS are available at:
https://msfcsma3.msfc.nasa.gov/checklists/checklist_listing.asp
NOTE: you still have to go into IHOPs to record the checklist answers into the IHOPs database.
- DOCUMENTS of INTEREST:
 - MWI 8715.15 MSFC Safety Assessment Program
 - MWI 8715.8 Operational Readiness Program
 - MWI 8715.6 Hazardous Operations
 - MPG 8715.1 Marshall Safety, Health, and Environmental (SHE) Program
 - NPG 8715.3 NASA Safety Manual
 - 29 CFR 1910 Occupational Safety and Health Standards
- IHOPS LINK <https://msfcsma3.msfc.nasa.gov/dbwebs/apps/ihop/>